1. Hardware

Local rig consists of RRC-1258 MkII box, TP-Link TL-WR343ND router/access point and a laptop running Windows 7 OS. Dynamic microphone - old Yaesu MD-1

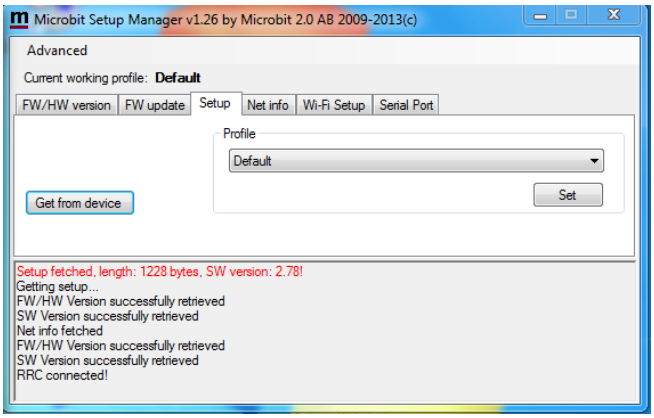
Connection cable from between microphone and remote box - from Yaesu MD-100.
The purpose of router is to pickup Wi-Fi signal and to convert it to LAN (cable) which is needed for the remote box. Since I mostly operate from hotels, the router is very handy.
Though, it is also possible to install wireless module instead of router, bus it cost around $100 vs $50 for router.
Beside of that, the router, once configured does not require every day login, which is common in many hotels.
Remote rig consists of remote box connected to Elecraft K3 transceiver.

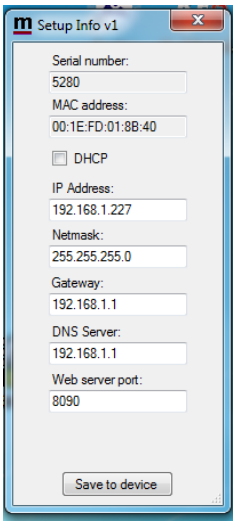
Recently I started accessing remote rig via Elecraft K3/0-Mini, see pictures below:

K3/0-Mini

2. Configuration

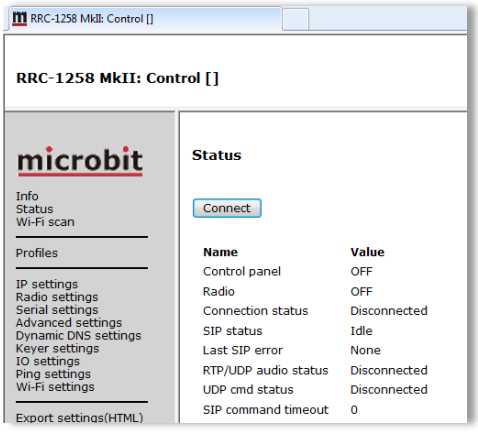
Initial configuration of local box made by [Microbit Setup Manager] thru USB port on front panel of the box.





After initial setup of the box it could be reached by Ethernet on this address: http://192.168.1.227:8090/ Note that 192.168.1.0 is my home network IP address defined in router. You may have different network address. Check your router settings.

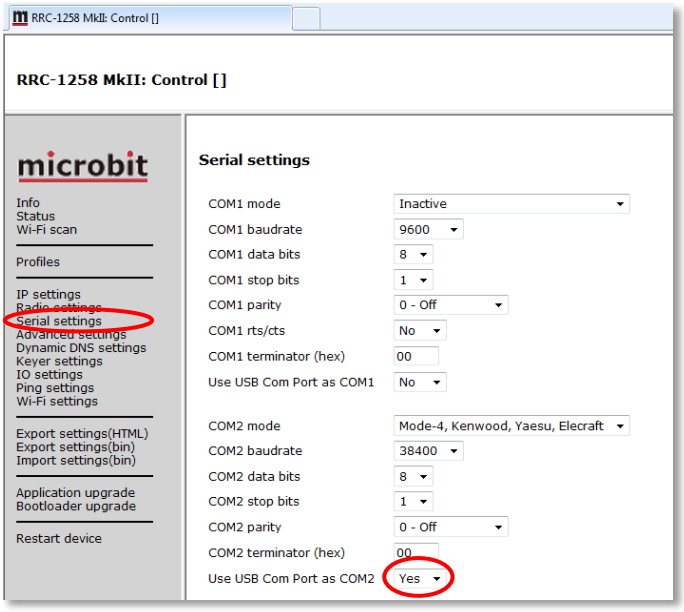
When accessed, the start page looks like that:



If remote box on radio side has already installed and configured, after pushing “Connect” button receiving signal should be heard.

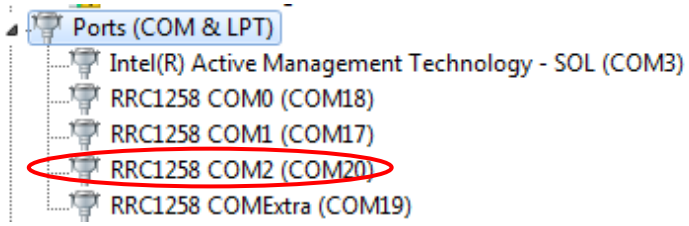
3. How to control Transceiver with Ham Radio Deluxe

Transceiver control could be done by connecting PC to one of serial ports of the box, including USB one. Since I have no serial ports on my PC, I decided to use USB port which has to be enabled in “Serial settings” menu:



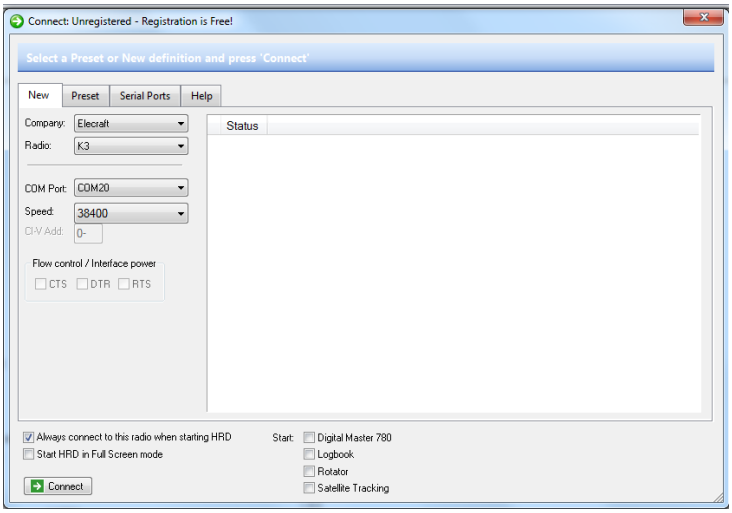
Do not forget to export and save settings which will be completely forgotten after couple of months.

After connecting the local box via USB, the port COM2 on the box was recognized by PC as COM20:



This could be used to configure Ham Radio Deluxe (HRD) software:

The current version of the software is not free, so the above link pointing at V.5.xxx which is free. When running first time setup radio and serial port:



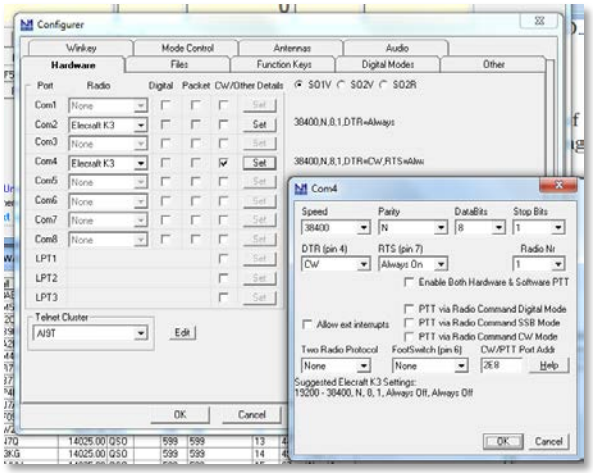
In my case it was COM20, the speed of 38400 is default for Elecraft K3.

So, to start remote control, I go to http://192.168.1.227:8090/ then “Status”, click on “Connect” button, when hear air noise, run HRD.

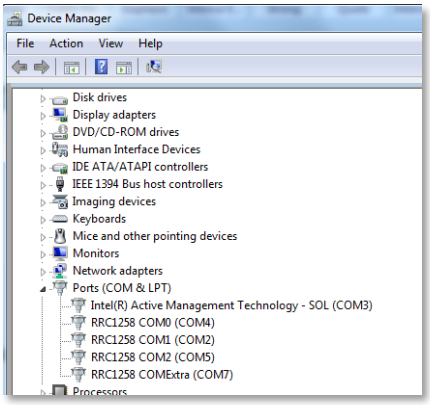
4. How to control Transceiver with K3/0-Mini

Set the radio to mode 14 – Elecraft twin. In this case remote transceiver controlled directly by K3/0 panel. Both RRC's serial settings COM1 has to be set to Mode-7. The baud rate does not have to be the same as COM2.
Use COM1 on the control RRC for N1MM or Ham Radio Deluxe. You may wish to change the control RRC's COM1 "Use USB Com Port as COM1" to YES and then use that virtual serial port (see what Windows assigned it in the Device Manager).

5. How to configure N1MM logger with K3/0-Mini



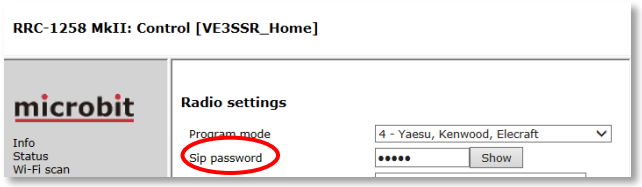
On the picture above Com2 corresponds to virtual port Com1 on RRC and used to control transceiver; Com4 corresponds to Com0 on RCC and configured to key CW.



6. Password

If someone decides to set a password on remote and control box, make sure you enter it as a sip password.

Otherwice no connection would be possible and you will hear high pitch “po-pu-pi” sound.



There is default password on my box “hello”.

Enjoy.

p.s. Here I did not describe settings of remote box, connected to radio since settings were done by Boris, VE3DQ. I may add those settings as well in near future. The setting I can see when I get online with the remote box.